

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P1498393

Luminaire Tested: MAE-G-2-120-2HI-STD-35-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2HI-STD-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

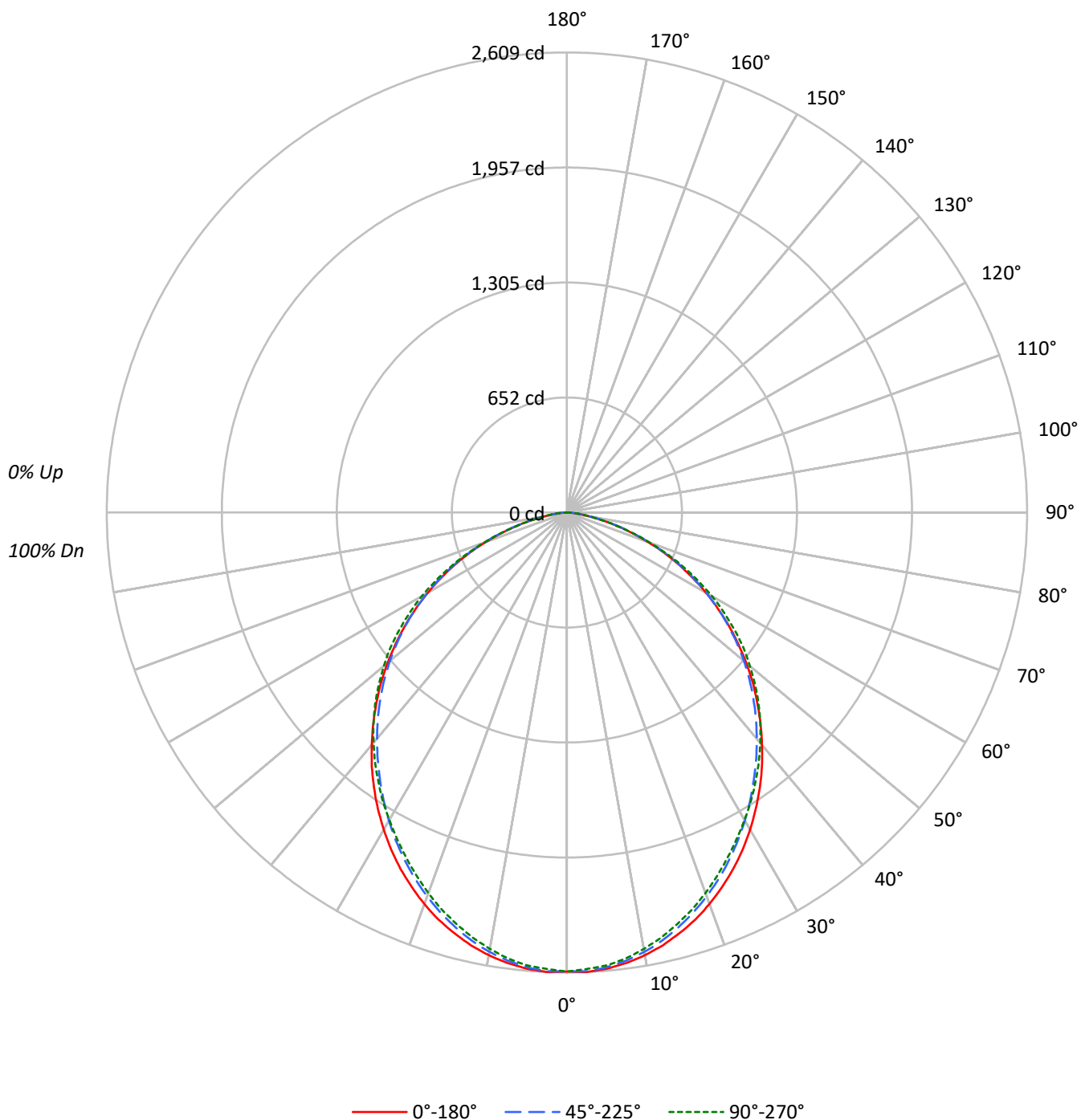
Lumens per Lamp: N/A
Luminaire Lumens: 6354.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 80
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7005	7005	7005
5°	7016	6994	6964
10°	6966	6914	6866
15°	6880	6789	6731
20°	6767	6634	6578
25°	6624	6460	6407
30°	6454	6270	6255
35°	6263	6070	6125
40°	6045	5883	5991
45°	5810	5691	5850
50°	5554	5482	5670
55°	5260	5232	5437
60°	4906	4920	5119
65°	4458	4499	4618
70°	3847	3913	3945
75°	3062	3145	3069
80°	2067	2146	2106
85°	1056	1402	1769

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5850 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.9	3.9
10°-20°	686.5	10.8
20°-30°	1005.0	15.8
30°-40°	1167.0	18.4
40°-50°	1166.3	18.4
50°-60°	1005.5	15.8
60°-70°	700.4	11.0
70°-80°	320.1	5.0
80°-90°	58.4	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1936.4	30.5
0°-40°	3103.4	48.8
0°-60°	5275.1	83.0
0°-90°	6354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2603	2603	2603	2603	2603	
5°	2597	2587	2589	2575	2578	246
15°	2470	2453	2437	2414	2416	696
25°	2231	2207	2176	2154	2158	1027
35°	1907	1877	1848	1851	1864	1192
45°	1527	1502	1495	1520	1537	1178
55°	1121	1102	1115	1146	1159	1001
65°	700	693	706	718	725	693
75°	294	293	302	297	295	317
85°	34	38	45	54	57	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2603.2	2603.2	2603.2	2603.2	2603.2
2.5°	2608.7	2599.5	2603.2	2592.6	2591.4
5°	2597.2	2587.4	2589.1	2575.0	2578.2
7.5°	2577.2	2566.1	2564.3	2548.5	2551.7
10°	2549.5	2535.9	2530.3	2511.2	2512.9
12.5°	2513.9	2498.9	2488.4	2466.5	2469.5
15°	2469.6	2453.0	2436.8	2414.3	2416.1
17.5°	2420.8	2403.1	2379.9	2356.0	2360.7
20°	2363.1	2343.9	2316.5	2291.7	2296.9
22.5°	2299.2	2277.7	2249.3	2224.9	2228.1
25°	2231.0	2207.4	2175.6	2153.8	2157.8
27.5°	2156.9	2130.7	2098.5	2079.6	2085.7
30°	2077.2	2049.9	2017.7	2004.6	2013.1
32.5°	1993.4	1965.6	1934.6	1929.6	1941.9
35°	1906.6	1877.2	1847.8	1850.7	1864.4
37.5°	1816.5	1787.5	1762.1	1772.5	1786.7
40°	1720.8	1694.1	1674.7	1690.3	1705.5
42.5°	1624.8	1599.3	1586.2	1607.0	1623.4
45°	1526.8	1501.5	1495.4	1519.8	1537.3
47.5°	1429.5	1403.8	1404.1	1431.5	1447.2
50°	1326.7	1304.5	1309.4	1338.8	1354.3
52.5°	1223.5	1202.9	1213.2	1244.4	1263.0
55°	1121.1	1102.3	1115.2	1145.9	1158.9
57.5°	1016.0	1001.8	1016.4	1043.5	1056.1
60°	911.5	898.5	914.1	939.1	951.2
62.5°	805.8	794.8	811.3	831.5	838.7
65°	700.2	692.7	706.5	718.1	725.3
67.5°	596.4	589.1	602.8	613.1	615.3
70°	488.9	485.2	497.4	502.5	501.4
72.5°	390.2	386.1	396.4	396.6	393.6
75°	294.5	292.7	302.5	297.2	295.2
77.5°	207.4	209.9	213.6	209.0	207.5
80°	133.4	138.2	138.5	137.6	135.9
82.5°	74.8	78.7	80.8	89.4	92.9
85°	34.2	37.9	45.4	53.8	57.3
87.5°	11.5	14.6	19.0	20.3	19.2
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.69	19.27	18.05	19.59	19.90	17.97	19.56	18.34	19.87	20.18
	3H	19.15	20.57	19.53	20.90	21.26	19.42	20.84	19.79	21.17	21.53
	4H	19.57	20.91	19.97	21.26	21.64	19.81	21.15	20.21	21.50	21.88
	6H	19.78	21.01	20.19	21.38	21.77	20.00	21.24	20.41	21.60	21.99
	8H	19.80	20.98	20.23	21.37	21.77	20.04	21.22	20.47	21.61	22.01
	12H	19.80	20.93	20.23	21.31	21.74	20.06	21.19	20.49	21.57	22.00
4H	2H	18.26	19.59	18.65	19.94	20.32	18.48	19.82	18.88	20.17	20.55
	3H	19.89	21.00	20.30	21.40	21.80	20.11	21.22	20.52	21.62	22.02
	4H	20.40	21.40	20.83	21.82	22.25	20.60	21.60	21.03	22.01	22.45
	6H	20.68	21.55	21.14	21.99	22.45	20.86	21.73	21.32	22.17	22.63
	8H	20.72	21.54	21.19	21.98	22.45	20.92	21.73	21.38	22.18	22.64
	12H	20.74	21.46	21.22	21.94	22.41	20.97	21.69	21.45	22.17	22.64
8H	4H	20.58	21.40	21.05	21.84	22.31	20.76	21.58	21.23	22.02	22.49
	6H	20.92	21.59	21.42	22.08	22.56	21.08	21.75	21.58	22.24	22.72
	8H	20.99	21.59	21.50	22.10	22.58	21.17	21.77	21.69	22.28	22.77
	12H	21.02	21.55	21.53	22.04	22.61	21.25	21.78	21.76	22.28	22.84
12H	4H	20.58	21.31	21.06	21.79	22.26	20.76	21.49	21.24	21.97	22.44
	6H	20.92	21.52	21.43	22.03	22.51	21.08	21.68	21.59	22.19	22.68
	8H	21.02	21.55	21.53	22.04	22.60	21.20	21.73	21.71	22.23	22.79